

ANTIMONY - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Antimony	1.023	1.14	166	0.953	0.878	10

Calculated Difference = 0.07
 Standard Error of the Difference = 0.39183601
 Degree of Freedom = 174
 t = 0.178646164
 p = 0.4292
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 background mean is not statistically less than site mean

ARSENIC - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Arsenic	3.331	3.269	166	3.438	1.792	10

Calculated Difference = 0.107
 Standard Error of the Difference = 0.97454393
 Degree of Freedom = 174
 t = 0.109794948
 p = 0.4563
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically less than background mean

BARIUM - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Barium	237.4	274.8	166	333.1	288.1	10

Calculated Difference = 95.7
 Standard Error of the Difference = 112.8814519
 Degree of Freedom = 174
 t = 0.847792072
 p = 0.1989 calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 Data sets significantly different = No site soil mean is not statistically less than background mean

CADMIUM - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Cadmium	0.335	0.859	166	0.0311	0.0398	10

Calculated Difference = 0.3039
 Standard Error of the Difference = 0.208717917
 Degree of Freedom = 174
 t = 1.456032165
 p = 0.0736
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

CHROMIUM - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Chromium	13.53	12.49	166	15.2	3.02	10

Calculated Difference = 1.67
 Standard Error of the Difference = 3.176242508
 Degree of Freedom = 174
 t = 0.525778493
 p = 0.2998
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically less than background mean

COPPER - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Copper	24.26	46.76	166	12.12	3.955	10

Calculated Difference = 12.14
 Standard Error of the Difference = 11.40971991
 Degree of Freedom = 174
 t = 1.064005085
 p = 0.1444
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

LEAD - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Lead	53.52	104.2	166	13.43	1.547	10

Calculated Difference = 40.09
 Standard Error of the Difference = 25.27694655
 Degree of Freedom = 174
 t = 1.586030177
 p = 0.0573
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site surface soil mean is not statistically greater than background mean

LITHIUM - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Lithium	10.03	6.299	166	21.14	5.166	10

Calculated Difference = 11.11
 Standard Error of the Difference = 2.236676187
 Degree of Freedom = 174
 t = 4.967191972
 p = 0.00
 Data sets significantly different = Yes

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site surface soil mean is statistically less than background mean

MANGANESE - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Manganese	261.2	127.4	166	377.4	93.75	10

Calculated Difference = 116.2
 Standard Error of the Difference = 42.82121949
 Degree of Freedom = 174
 t = 2.713607912
 p = 0.0037
 Data sets significantly different = Yes

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site surface soil mean is statistically less than background mean

MERCURY - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Mercury	0.0262	0.0941	166	0.0213	0.00479	10

Calculated Difference = 0.0049
 Standard Error of the Difference = 0.022872813
 Degree of Freedom = 174
 t = 0.214228129
 p = 0.4153
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

MOLYBDENUM - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Molybdenum	0.89	1.488	166	0.522	0.0739	10

Calculated Difference = 0.368
 Standard Error of the Difference = 0.361648843
 Degree of Freedom = 174
 t = 1.017561668
 p = 0.1550
 Data sets significantly different = No

calculated at www.stat.tamu.edu/~west/applets/tdemo.html
 site soil mean is not statistically greater than background mean

ZINC - SOUTH OF MARLIN SOIL

Compound	Site Conc. Mean	Site Conc. Standard Deviation	Number of Site Samples	Background Conc. Mean	Background Conc. Standard Deviation	Number of Background Samples
Zinc	433.8	786.8	166	247	364.6	10

Calculated Difference =	186.8	
Standard Error of the Difference =	222.9535182	
Degree of Freedom =	174	
t =	0.8378428	
p =	0.2016	calculated at www.stat.tamu.edu/~west/applets/tdemo.html
Data sets significantly different =	No	site soil mean is not statistically greater than background mean